

1 / 1

Patent Number:

FR2804173 A1

20010727

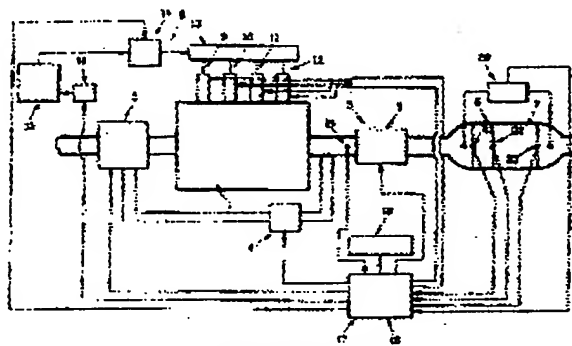
System for ensuring the optimum regeneration of particulates in the filter present in the exhaust system of a Diesel automotive engine

(FR2804173)

SYSTÈME D'AIDE A LA REGENERATION D'UN FILTRE A PARTICULES INTEGRE DANS UNE LIGNE D'ECHAPPEMENT D'UN MOTEUR DIESEL DE VEHICULE AUTOMOBILE

Index Terms:

INTERNAL
COMBUSTION
ENGINE; DIESEL
ENGINE; EXHAUST
PIPE; PARTICLE
FILTER;
REGENERATION;
ADDITIONAL
INJECTION; EXHAUST
GAS RECIRCULATION;
TURBOCOMPRESSOR;
OXIDATION
CATALYST; ADDITIVE;
COMMON RAIL;
ELECTROMAGNETIC
INJECTOR; SENSOR;
TEMPERATURE;
DIFFERENTIAL
PRESSURE; FILTER
STATE; CONTROL;
OXYGEN SENSOR;
COORDINATION
TABLE



©Questel.Orbit

(FR2804173)

The engine (1) has different organs associated with it, and has a unit (17) for controlling its function, adapted for triggering a phase of regeneration of the particulate filter. The control unit has a unit (18) for estimating the amount of particles to be filtered, connected to a lambda probe proportionally (24) delivering information relative to the oxygen concentration of the exhaust gas. There is a unit (19) for storing a correspondence table containing, as a function of the exhaust gas oxygen content and for each functioning point of the engine, an estimated quantity of particles emitted by the engine, and having members for adding in the quantities, also estimated during the functioning of the engine for determining the particulate load of the filter.

Inventor(s):

SALVAT OLIVIER
LE TALLEC PATRICE


Patent Assignee:

PEUGEOT CITROEN
AUTOMOBILES SA

Orig. Patent Assignee:


PEUGEOT CITROEN
AUTOMOBILES SA; 62
BOULEVARD VICTOR
HUGO 92200 NEUILLY
SUR SEINE

BEST AVAILABLE COPY

FamPat family FR2804173**STG:****AP :**

A1 20010727

[FR2804173]

Application, first
publication2000FR-0000711
20000120 FR2804173**STG:**

B1 20020503

[FR2804173]

Patent of invention
(2nd publication)**Priority Details:**2000FR-0000711
20000120

©QUESTEL-ORBIT

1 / 1

Patent Number: DE19741973 C1 19990422

Method of determining the soot conc. of self-igniting internal combustion engines

(DE19741973)


Verfahren zur Bestimmung der Ru konzentration von selbstzündenden Brennkraftmaschinen

(DE19741973)

the method involves deriving the soot conc. using a neural network (202) which is trained using input data (201) characteristic of the soot conc. (203) with associated signals representing the soot conc. Finally, the soot conc. is derived from acquired input data using the trained neural network

Inventor(s): BARGENDE MICHAEL DIPL ING
BAIER THOMAS
KOEHLER JUERGEN DIPL ING

Patent Assignee: DAIMLER CHRYSLER AG

FamPat family DE19741973

C1 19990422 [DE19741973]

STG: Patent Specification (First publication)

AP : 1997DE-1041973 19970923

Priority Details: 1997DE-1041973 19970923

©QUESTEL-ORBIT